

AMENDMENTS TO THE CLAIMS

Claims 1-14 (Canceled).

15. (New) An electromotive soil cultivation appliance for cultivating soil comprising a rotary hoe with an asynchronous rotary current motor for driving a rotatable cultivating tool, a frequency converter for generating a drive voltage of adjustable frequency for the rotary current motor, wherein the frequency converter is connected to a manually operated adjusting device for varying frequency of the drive voltage, and wherein the rotary current motor is constructed and arranged so that a nearly constant torque of the rotary current motor is maintained over a range of speeds of the motor and are adjustable by an adjusting device, wherein the nearly constant torque is maintained by adapting or selecting a number of poles and number of turns of the rotary current motor, and wherein a sufficiently high torque is maintained in a lower speed range by providing a correspondingly high number of turn grooves and/or poles.

16. (New) The soil cultivation appliance according to claim 15, wherein the rotary current motor maintains said nearly constant torque over a speed range of the rotary current motor from 20 to 6500 rpm.

17. (New) The soil cultivation appliance according to claim 15, wherein the rotary current motor maintains said nearly constant torque over a speed range of the rotary current motor from 10 to more than 3000 rpm.

18. (New) The soil cultivation appliance according to claim 15, further comprising maintenance of a sufficiently low inductive resistance in a higher speed range by selecting a correspondingly small number of turns.

19. (New) The soil cultivation appliance according to claim 15, wherein the torque of the rotary current motor varies by no more than 10% over a range of motor speeds.

20. (New) The soil cultivation appliance according to claim 15, wherein the frequency converter and the adjusting device generate a drive voltage for the rotary current motor that has a maximum frequency in excess of 100 Hz.

21. (New) The soil cultivation appliance according to claim 15, further comprising an electromechanical control for reversing polarity of the rotary current motor such that the soil cultivation appliance is operable in a forward mode or a reverse mode, wherein a speed limiter limits speed of the rotary current motor in the reverse mode to no more than 50% of a speed attainable in the forward mode.

22. (New) The soil cultivation appliance according to claim 21, wherein the electromechanical control is connected

to a first switching element and a second switching element that are actuated simultaneously in order to start the appliance, wherein the first switching element must be continuously held in a depressed position by a user against a force of a spring in order to operate the appliance and the second switching element provides for selection of the forward mode or the reverse mode.

23. (New) The soil cultivation appliance according to claim 22, wherein the electromechanical control interrupts electrical operation of the appliance for changing over between the forward mode and the reverse mode.

24. (New) The soil cultivation appliance according to claim 21, wherein the frequency converter has a direct voltage output for supplying the electromechanical control with power.

25. (New) The soil cultivation appliance according to claim 21, wherein the electromechanical control comprises a microprocessor control.

26. (New) The soil cultivation appliance according to claim 15, wherein the adjusting device comprises a potentiometer.